

Appendix 11
List of thesis titles in biotechnology master's program

No	Year	Title
1	2021	Silver nanoparticle synthesis using microalgae as a potential antibacterial agent
2	2021	Development of lateral flow immunoassay method to detect infectious bursal disease virus (IBDV) in chickens.
3	2021	Effect of the purchase of alang alang root (<i>Imperata cylindrica</i> L) stanol extract on lipid profiles and related genes in a high fat diet mouse model.
4	2021	Green synthesis of different phases of titanium dioxide (TiO ₂) nanoparticles using mango peel (<i>Mangifera indica</i> L.) extract
5	2021	Effect of Secang Wood Extract (<i>Caesalpinia sappan</i> L) as Antioxidant on H9C2 Cardiomyocytes Cell Line Induced Ammonium Ferric Citrate (AFC)
6	2021	Fermentation of fish waste by probiotics to improve the nutritional quality of beef cattle feed in vitro
7	2021	Toxicity of TiO ₂ Nanoparticles in Various Phases in <i>Spirulina platensis</i> Brackish Waters
8	2021	Structural bioinformatics study of potential antibody dependent enhancement on covid 19 vaccine
9	2021	Analysis of Non-Pathogenic Bacteria on Antibiotic Resistance in Cow's Milk in Pangalengan
10	2021	Simulation of Coarse Grained Molecular Dynamics to Study the Effect of Protein Structure Mutations in Spike Sars-Cov-2 Indonesian Strains
11	2021	Optimization of tapioca cassava lactic acid fermentation with variations of different commercial tempeh inoculum concentrations.
12	2021	Expression of variable single chain fragment (scFv) in the host <i>Escherichia coli</i> BI 21(DE3) as a gold nanoparticle-based bioreceptor candidate (AUNP) for the molecular detection of covid-19
13	2021	Development of SARS-CoV-2 Antigen Rapid Test using Saliva Specimen
14	2021	Antibiotic resistance of lactic acid bacteria isolated from cow's milk
15	2022	Simulation of coarse grained molecular dynamics to study the effect of protein structure mutations in spike SARS-CoV-2 Indonesian strains
16	2020	Fermentation of lactic acid from cassava pulp using commercial tempe inoculums as a bioplastic poly lactic acid raw material
17	2021	Anti-RBD single-chain variable fragment (scFv) expression in the host of <i>Escherichia coli</i> BL21 (DE3) as candidate bioreceptors for COVID-19 antigen detection
18	2022	Early development of self-administered covid-19 rapid test based on nucleocapsid detection in saliva sample
19	2022	Polymorphism of <i>k1f1</i> genes in β -thalassemia and effects levels of hbf levels, hb levels and blood transfusion frequencies
20	2021	Effect of TiO ₂ - anatase on the viability cell of <i>Pseudomonas putida</i> and <i>Enterobacter cancerogenus</i>

21	2020	Detection and profile of antimicrobial resistance of <i>Escherichia coli</i> which causes mastitis from a dairy farming environment in West Java canning.
22	2020	Development of the main components of the diphtheria vaccine and next-generation vaccine conjugates that are safer and more effective
23	2020	Firulence factors and antimicrobial resistance profile of <i>Staphylococcus Aureus</i> which causes mastitis, in dairy farms in Bandung Regency
24	2022	Computational model of scFv anti RBD of SARS-CoV-2 from S230 anti SARS-CoV
25	2020	Analysis of resistant antibiotic profiles and pathogenesis of <i>Escherichia coli</i> in mastitis from the environment of dairy farms in Pangalengan area, West Java
26	2020	Expression, solubilization, and purification of recombinant diphtheria toxin (rCRM197EK) in the <i>Escherichia coli</i> BL21(DE3) host for the development of vaccine conjugates and drug delivery
26	2020	Antibiotic resistance analysis of <i>Staphylococcus aureus</i> as a main cause of mastitis in the southern region of Bandung regency
27	2020	Nanoemulsion of the extracted microalgae <i>Spirulina maxima</i> and its potential as an antioxidant and antibacterial
27	2020	Development of IgY-based lateral flow assay for detection of gumboro disease in chicken
28	2020	Toxic effects of alang-alang (<i>Imperata cylindrica</i> L.) root ethanol extract on organs, complete blood profile and blood biochemical profile of wistar rats
29	2020	Green synthesis of different phases of titanium dioxide (TiO ₂) nanoparticles using mango peel extract (<i>Mangifera indica</i> L.)
30	2020	The effect of sappan wood extract (<i>Caesalpinia sappan</i> L) as antioxidant in H9C2 cell line cardiomyocytes induced ammonium ferric citrate (AFC)
31	2020	Toxicity of different phase of TiO ₂ nanoparticles on <i>Spirulina platensis</i> in the brackish environment
32	2018	Analysis of monoproduct profiles from yeast cell extraction in milk and its derivative products.
33	2018	Potential ethanol extract of alang alang root (<i>Imperata cylindrica</i> L.) as an anti-oxidant in inflammation model mice.
34	2018	Chronic toxicity of secang extract on kidney function in white rats (<i>Rattus norvegicus</i>)
35	2018	Application of the integrated MBBR system in surface water treatment for the needs of aquaculture ponds
35	2018	Development of a pertussis epitope vaccine with the isolate sequence of <i>Bordetella pertussis</i> pelita III used in silico studies.
36	2018	Structure Design of UP2 protein for IBDV vaccine components
37	2018	Fermentation of waste patin fish (<i>Pangasius</i> sp.) by probiotic for producing amino acids and essential fatty acids
38	2017	Effect of ethanol extract of alang - alang root on markers of inflammation in the liver of mice Hepatotoxic models.
39	2017	Regional design of recombinant toxoids R9K and E128G from pertussis toxin subunit 1 Strain Pelita III as a vaccine component.

40	2016	Relationship between Beta Globin Genotypes carrying Thalassemia with Hemoglobin Variants in Families with Beta Thalassemia in Bandung City.
41	2016	Effectiveness of Herbicide Biodegradation by Bacteria Consortium.
42	2016	Effect of administration of Brazilin compound on the antioxidant profile of rats (<i>Ratus norvegicus</i> L) under iron overload conditions
43	2016	Biodegradation Potential of Yeast Consortium on the quality of textile wastewater PT. Kahatex, Bandung Regency, West Java.
44	2015	Design and Development of Epitor-Based Human Papillomavirus TYPE 16 Vaccine In Silico.
45	2015	Isolation of Brazilin sappanwood (<i>Caesalpinia sappan</i> L.) and its implementation as a chelation tablet in rats (<i>Rattus norvegicus</i> L.) under iron overload conditions.
46	2015	Parmacophore modeling, virtual screening and molecular anchoring of plant compounds from parasites (Loranthaceae and Viscaceae) for the discovery of oral anticancer.
47	2015	Optimization of M2E epitope-based vaccine candidate expression using response surface methodology and purification.
48	2015	Morphological and genetic characterization of Double Mutant Tomato (<i>Solanum lycopersicum</i> L.) Seedless fruit and storage resistance.
49	2015	The relationship between levels of oxidative stress and the type of mutation of the Beta Globin gene in Beta thalassemia patients at Dr. Hospital. Hasan Sadikin Bandung.
50	2015	Structural design of a-amylase Saccharomycopsis Fibuligera R64 to increase its Adsorpvitis to Substrate by using the Bioinformatics Method.